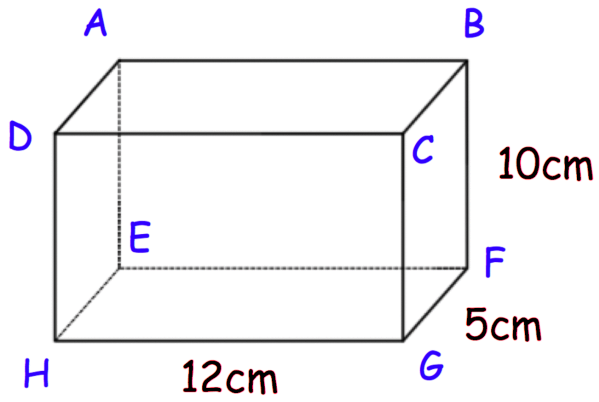
9th August **Higher Plus 5-a-day**

Corbettmaths

$g(x) = 15 - x$ $h(x) = x^3$

Solve $gh(x) = 140$

ABCDEFGH is a cuboid



Calculate the length of BH

Find the size of angle BHF

The nth term of a sequence is
$n^2 - 10n + 30$

By using completing the square, show that every term is positive.

$y = a \times b^x$

Where a and b are positive constants.

y = 256 when x = 3

y = 16384 when x = 5

Work out y when x = 2